Welcome to the National Girls Collaborative Project
National Webinar

TechGirlz: You Can Help Inspire Middle School Girls to Explore Tech!

September 25, 2018
Agenda

• NGCP Vision and Goals
• TechGirlz: TechShopz in a Box
• Questions and Discussion
• Closing

Photo credit: TechGirlz
Vision

The National Girls Collaborative Project (NGCP) brings together organizations committed to informing and encouraging girls to pursue careers in science, technology, engineering, and mathematics (STEM).

Photo credit: TechGirlz
Goals

1. **Maximize access** to shared resources within organizations interested in engaging girls in STEM.

2. **Strengthen the capacity** of programs by sharing exemplary practice research and program models.

3. **Use the leverage of a network** to achieve gender equity in STEM.
National Network of Collaborative Teams
Speaker

Amy Cliett,
National Director,
TechGirlz
Inspire Girls to Explore Technology

techgirlz.org/techshopz-in-a-box

info@techgirlz.org
Outline

- What is it?
- Who can do it?
- What materials?
What is it?

- Workshop
- Hands-on
- Free
- 3 hours
- 15-20 girls
Who does it?

- Anyone!
- Tech professionals
- College students
- High school students
- Parents
- Afterschool groups
What Materials?

Workshop Plans

- Workshop outline
- Timing
- Slides
- Exercises

Sign Up: techgirlz.org/topics
Get Started

Sign Up:
[techgirlz.org/register](http://techgirlz.org/register)
Workshop Plans

- Description
- Learning Objectives
- Assessment
- Resources/Materials
- Preparation
- Workshop Content
- Extension Activities
- Additional Resources
- Teaching Tips

YOU Can Code!

The TechGirlz Mission: We are a 501(c)3 nonprofit dedicated to reducing — and ultimately eliminating — the gender gap in technology occupations.

TECHSHOP OVERVIEW

- BRIEF WORKSHOP DESCRIPTION:
  - TechShop Description (use for marketing): In this workshop, we will use Blockly, a drag and drop language to interface with the memory of the computer. We will be trying a number of puzzles, mazes and games to explore sequential events, selection and repetition. After, students will be able to access the web pages at home to continue their learning.
  - Instructor’s Level of Expertise: Beginner - familiarity with coding principles recommended
  - Approximate Time Range of Workshop: 3hrs

SPECIFIC LEARNING GOAL(S)/OBJECTIVE(S):

By the end of this workshop, students will be able to:

- Explain examples of computer programs
- Discuss how a computer “thinks”
- Name some of the tools that a coder may use
- Use computer instructions to solve puzzles, mazes, and other games using drag and drop language tools of Blockly

ASSESSMENT:

- Students will demonstrate new knowledge of using Blockly to “code” increasingly difficult games

RESOURCES/MATERIALS:

- Software: presentation slides, Blockly website
- Hardware: projector, screen, computer for each student with Internet access.
- Other: Internet connection (required), name tags, felts, swag, white board markers, paper, pens, copies of TechShop Attendee Survey (printed or online)
PlayBook

- Tips and guidelines
- Templates and forms
- Advice on teaching

Check It Out: techgirlz.org/playbook
Topics

@TechGirlzOrg

Consider...

- Devices
- Materials
- Expertise

Sign Up: techgirlz.org/topics
Date and Time

- Choose a date
- Allow 1-2 months
- Saturday afternoons
- Afterschool
- School holidays

Tell Us When: techgirlz.org/promote-my-workshop
Get Help

- Instructor & organizer
- Recruit instructor assistants
- 1:5 instructor : attendee ratio
● Attendee surveys
● # girls taught
● Feedback on the workshop plan
● Blog post

@TechGirlzOrg
I have kids...

- Find a location
- Find an instructor
  - Library
  - University
  - Tech company
  - Tech user groups

@TechGirlzOrg
I have an instructor...

- Find a location
  - Library
  - University
  - Tech company
- Recruit kids
  - Ask TechGirlz for help

@TechGirlzOrg
I have a location...

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Questions?

info@techgirlz.org

Sign Up
Choose a Topic
Choose a Date
Run a workshop!

techgirlz.org/techshopz-in-a-box
Happy 16th Birthday, NGCP!

#AltSweet16
#NGCPTurns16

NGCP Turns 16 Calendar of Events
Get Involved with NGCP

• Follow us on social media, @NGCProject
• Attend local events and national webinars
• Join your local Collaborative leadership
• Collaborate to serve more girls in STEM

Photo credit: TechGirlz
Thank you for joining us today!

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